

DESCRIPTION OF MAP UNITS

UNCONSOLIDATED DEPOSITS

- Qal Floodplain and low terrace deposits
- Qog Outwash gravel and low terrace deposits
- Qg High-level gravel (ancestral Colville)
- Qsm Silt and muck deposits
- Qds Debris slides
- Qsf Solifluction mantle
- Qt Thaw lake deposits
- Qus Upland silt
- Qb Marine beach (?) deposits

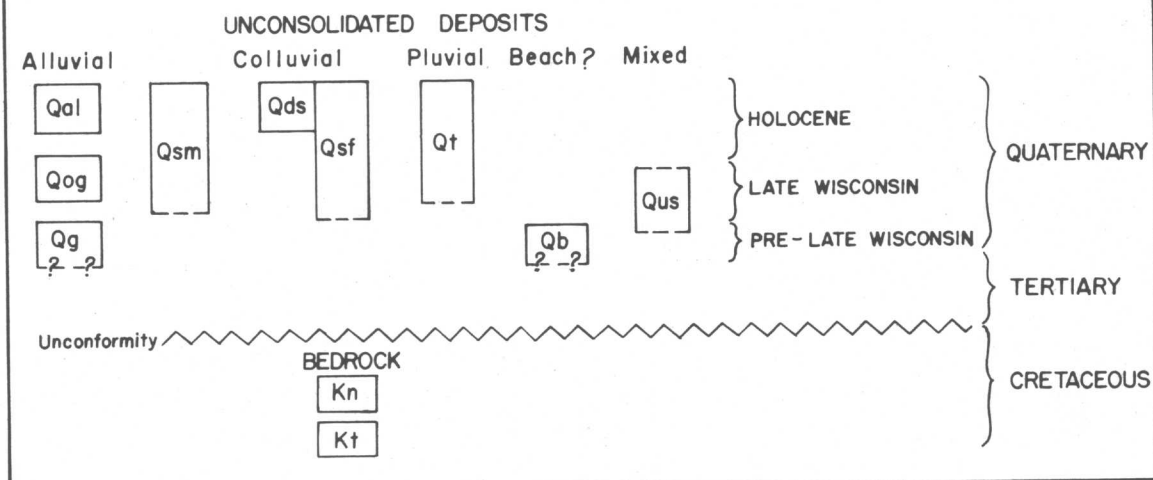
BEDROCK

- Kn Nanushuk Group rocks
- Kt Torok shale and Fortress Mountain Formation

SYMBOLS

- Contact, dashed where approximately located, queried where extreme doubt as to position
- Northern boundary of prominent erosion surface
- Anticline showing direction of plunge
- Syncline showing direction of plunge
- pingo
- X<sub>177</sub> Fossil and/or radiocarbon dated locality
- Δ coal outcrop (Martin and Callahan, 1978)
- coal reported in shallow seismic drill hole (Martin and Callahan, 1978)

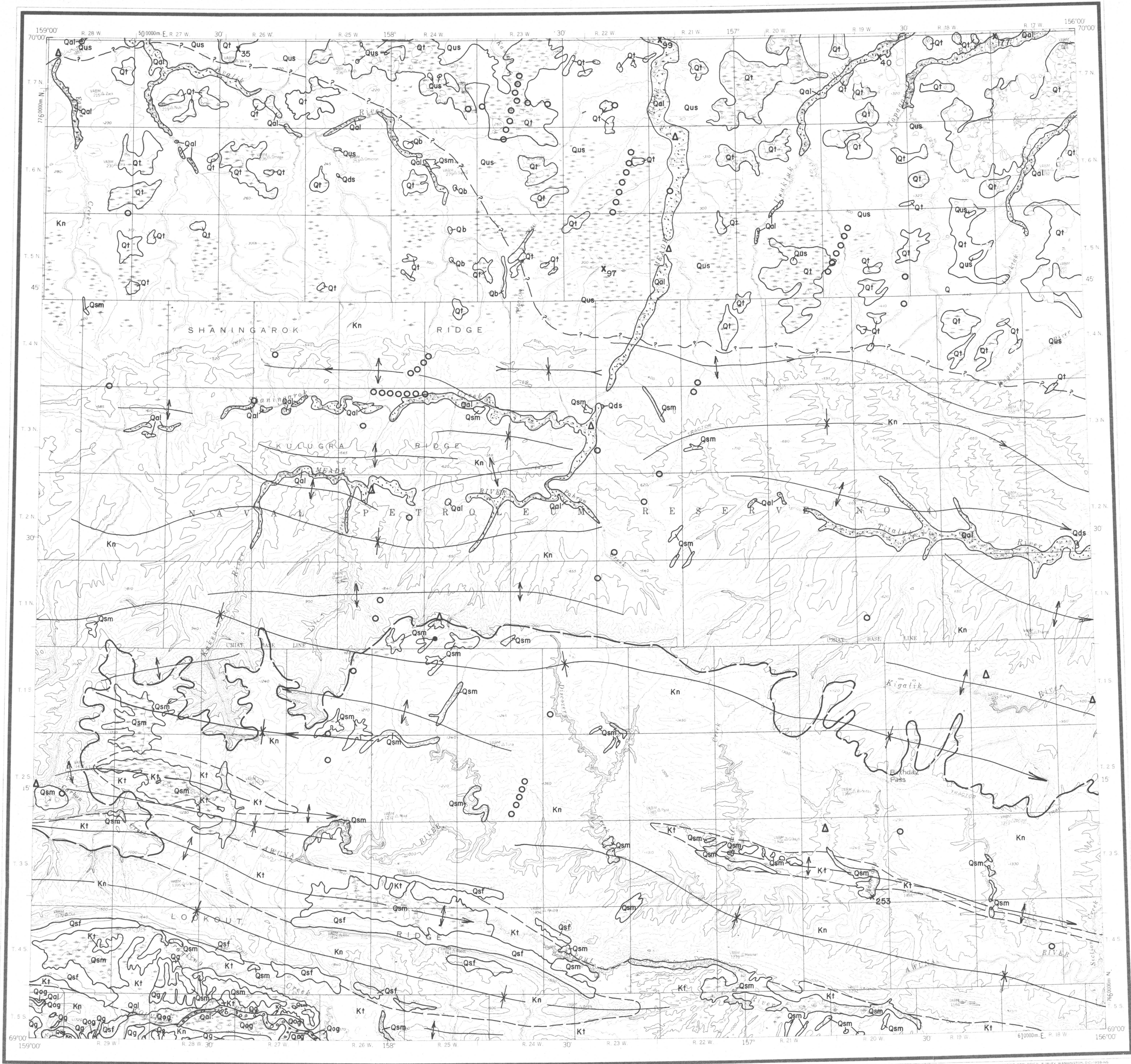
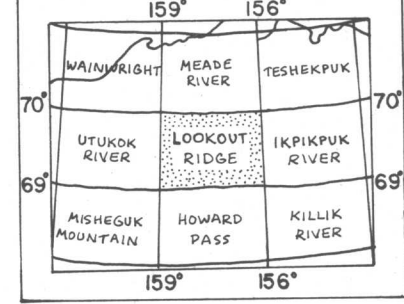
CORRELATION OF MAP UNITS



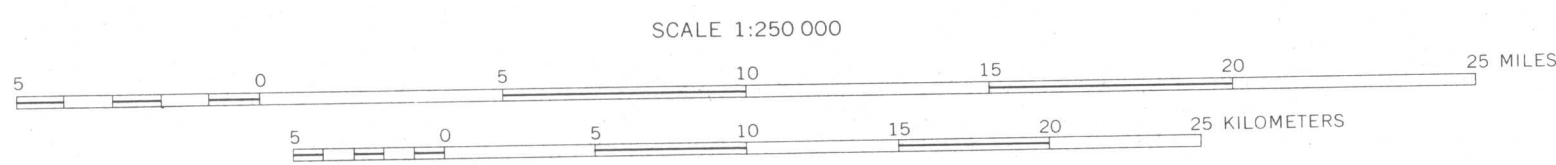
FOSSIL AND RADIOCARBON-DATED LOCALITIES

- 177 Mollusca from stratified thaw lake sediments; peaty material dated at 2640 ± 85 years B.P. (I-10273); carbonized wood fragments (transported?) dated at 8900 ± 140 years B.P. (I-10787), Topagoruk River (Williams and Yeend, 1979).
- 35 Carbonized wood (transported?) in frozen muck 2.5 meters down from surface dated at 8460 ± 135 years B.P. (I-11146), lake bluff near northern boundary of quadrangle.
- 97 Fossil ivory (tusk), unnamed western tributary to Meade River.
- 99 Mollusca in brown sand, large mammal tooth, Meade River bluff.
- 40 Mammal bones from 4 meter-thick section of cross-bedded sand lying beneath 30 meters of silt; exposed at bluff along Usuktuk River; Saiga Antelope bones dated 37,000 ± 990 years B.P. (GSC 3050) reported from river bar by Harington (1981) near this locality.
- 253 Mammoth ivory, teeth found near the junction of the Awuna River and Birthday Creek (Smith and Mertie, 1930, p. 253).

LOCATION INDEX



Base from USGS 1:250,000  
LOOKOUT RIDGE, 1956, 100 ft



Geology by W. E. Yeend, 1977, 78, 82; assisted by  
Inyo Ellersieck, 1977, and Randy Ennis, 1978;  
bedrock adapted from Mayfield and others, 1978;  
coal locations from Martin and Callahan, 1978.

ENGINEERING - GEOLOGIC MAPS OF NORTHERN ALASKA, LOOKOUT RIDGE QUADRANGLE

By  
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1983

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.